

# 6AL3

## Half-Wave Vacuum Rectifier

### 9-PIN MINIATURE TYPE

#### GENERAL DATA

##### Electrical:

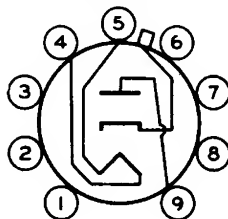
Heater Characteristics and Ratings (*Design-Center Values*):

Voltage (AC or DC) . . . . .	6.3 ± 0.6	volts
Current at heater volts = 6.3 . . . . .	1.550	amp
Peak heater-cathode voltage . . . . .	6600 max.	volts
Direct Interelectrode Capacitances (Approx.): <sup>a</sup>		
Plate to cathode and heater . . . . .	8.6	μμf
Heater to cathode . . . . .	2	μμf

##### Mechanical:

Operating Position. . . . .	Any
Type of Cathode . . . . .	Coated Unipotential
Maximum Overall Length. . . . .	3-1/2"
Maximum Seated Length . . . . .	3-1/4"
Diameter. . . . .	0.750" to 0.875"
Bulb. . . . .	T6-1/2
Cap. . . . .	Skirted Miniature (JEDEC No.C1-2)
Base. . . . .	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW. . . . .	9CB

Pin 1 - Do Not Use<sup>b</sup>  
Pin 2 - Same as Pin 1  
Pin 3 - Same as Pin 1  
Pin 4 - Heater  
Pin 5 - Heater



Pin 6 - Same as Pin 1  
Pin 7 - Same as Pin 1  
Pin 8 - Same as Pin 1  
Pin 9 - Plate  
Cap - Cathode

#### DAMPER SERVICE

**Maximum Ratings, Design-Center Values Except as Noted:**

*For operation in a 525-line, 30-frame system<sup>c</sup>*

PEAK INVERSE PLATE VOLTAGE (Absolute-maximum value) <sup>d</sup> . . . . .	7500 <sup>e</sup> max.	volts
PEAK PLATE CURRENT. . . . .	550 max.	ma
DC PLATE CURRENT. . . . .	220 max.	ma
PLATE DISSIPATION . . . . .	5 max.	watts

<sup>a</sup> Without external shield.

<sup>b</sup> Socket terminals 1,2,3,6,7, and 8 should not be used as tie points.

<sup>c</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

<sup>d</sup> This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

<sup>e</sup> Under no circumstances should this absolute-maximum value be exceeded.



RADIO CORPORATION OF AMERICA  
Electron Tube Division  
Harrison, N. J.

DATA  
3-62